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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2011 Office of Secretary Of Defense										<b>DATE:</b> February 2010	
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 2: <i>Applied Research</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0602668D8Z: <i>Cyber Security Research</i>							
<b>COST (\$ in Millions)</b>	<b>FY 2009 Actual</b>	<b>FY 2010 Estimate</b>	<b>FY 2011 Base Estimate</b>	<b>FY 2011 OCO Estimate</b>	<b>FY 2011 Total Estimate</b>	<b>FY 2012 Estimate</b>	<b>FY 2013 Estimate</b>	<b>FY 2014 Estimate</b>	<b>FY 2015 Estimate</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	0.000	0.000	10.000	0.000	10.000	10.000	20.000	20.000	10.000	Continuing	Continuing
P003: <i>Cyber Security Research</i>	0.000	0.000	10.000	0.000	10.000	10.000	20.000	20.000	10.000	Continuing	Continuing
<p><b><u>A. Mission Description and Budget Item Justification</u></b></p> <p>This is a new start program.</p> <p>The urgency and criticality of improving Cyber Security for the Department of Defense (DoD) and Intelligence Communities (IC) is highlighted by the release of the President's Cyberspace Policy Review. Our cyber defenses must provide mission assurance during cyber attacks on our operations throughout the world. Adversaries are increasingly sophisticated and growing in number, and the DoD and IC need more options to operate and fight in cyberspace.</p> <p>This PE will conduct research and explore new and novel game-changing ideas over the full spectrum of computer network operations. Research will lead to a better understanding of the cyber threat and the mitigation of the threat; explore and exploit new concepts and ideas in cyber warfare; establish new analytical methodologies, develop models and experimental data for improving cyber security metrics; and develop technology options for improved operations in cyber space. The Cyber Security Advanced Technology Development PE will transition results of this research into demonstrations of improved capabilities to conduct full spectrum cyber operations.</p>											

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APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
0400: Research, Development, Test & Evaluation, Defense-Wide		PE 0602668D8Z: Cyber Security Research			
BA 2: Applied Research					
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	10.000	0.000	10.000
Total Adjustments	0.000	0.000	10.000	0.000	10.000
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Program Adjustments	0.000	0.000	10.000	0.000	10.000

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Office of Secretary Of Defense								<b>DATE:</b> February 2010			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 2: <i>Applied Research</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0602668D8Z: <i>Cyber Security Research</i>				<b>PROJECT</b> P003: <i>Cyber Security Research</i>			
<b>COST (\$ in Millions)</b>	<b>FY 2009 Actual</b>	<b>FY 2010 Estimate</b>	<b>FY 2011 Base Estimate</b>	<b>FY 2011 OCO Estimate</b>	<b>FY 2011 Total Estimate</b>	<b>FY 2012 Estimate</b>	<b>FY 2013 Estimate</b>	<b>FY 2014 Estimate</b>	<b>FY 2015 Estimate</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
P003: <i>Cyber Security Research</i>	0.000	0.000	10.000	0.000	10.000	10.000	20.000	20.000	10.000	Continuing	Continuing

## **A. Mission Description and Budget Item Justification**

This is a new start program.

The urgency and criticality of improving Cyber Security for the Department of Defense (DoD) and Intelligence Communities (IC) is highlighted by the release of the President's Cyberspace Policy Review. Our cyber defenses must provide mission assurance during cyber attacks on our operations throughout the world. Adversaries are increasingly sophisticated and growing in number, and the DoD and IC need more options to operate and fight in cyberspace.

This PE will conduct research and explore new and novel game-changing ideas over the full spectrum of computer network operations. Research will lead to a better understanding of the cyber threat and the mitigation of the threat; explore and exploit new concepts and ideas in cyber warfare; establish new analytical methodologies, develop models and experimental data for improving cyber security metrics; and develop technology options for improved operations in cyber space. The Cyber Security Advanced Technology Development PE will transition results of this research into demonstrations of improved capabilities to conduct full spectrum cyber operations.

## **B. Accomplishments/Planned Program (\$ in Millions)**

	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>
Cyber Security Research	0.000	0.000	10.000	0.000	10.000
<b><i>FY 2011 Base Plans:</i></b> This is a new start program and project plans for FY 2011 and beyond will be developed by the Director, Defense Research & Engineering (DDR&E) for execution by DoD components. This process will be conducted using the established Information Assurance and Computer Security Steering Council chartered by DDR&E which has representation from DoD components conducting cyber operations research.					
Accomplishments/Planned Programs Subtotals	0.000	0.000	10.000	0.000	10.000

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APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 2: Applied Research				R-1 ITEM NOMENCLATURE PE 0602668D8Z: Cyber Security Research				PROJECT P003: Cyber Security Research			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• PE 0603668D8Z, BA 3: Cyber Security Advanced Technology Development	0.000	0.000	10.000		10.000	20.000	30.000	30.000	40.000	Continuing	Continuing
D. Acquisition Strategy N/A											
E. Performance Metrics N/A											

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